

Serial No. 10/608,970  
Office Action Dated: 11/22/2006  
Response to Office Action dated: 03/22/2007



AMENDMENTS TO THE CLAIMS

Please replace all previous versions of the claims with the following listing:

1. (Currently amended) A compliant foil thrust bearing comprising:  
a flat thrust bearing plate;  
a plurality of foils disposed on the surface of said thrust bearing plate;  
a spring plate operatively engaging said thrust bearing plate;  
a plurality of springs disposed on the surface of said spring plate; and  
said thrust bearing plate including a plurality of decoupled bearing segments defined in part by a plurality of generally radially extending lines of weakness circumaxially dispersed about said thrust bearing plate, said decoupled bearing segments being circumferentially arranged about said thrust bearing plate.
2. (Original) The compliant foil thrust bearing of claim 1, wherein the lines of weakness are slits.
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Previously presented) The compliant foil thrust bearing of claim 1, wherein each bearing segment includes at least one foil.

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9. (Previously presented) The compliant foil thrust bearing of claim 1, wherein the spring plate includes a plurality of decoupled bearing segments defined in part by a plurality of generally radially extending lines of weakness circumaxially dispersed about the spring plate, said decoupled bearing segments being circumferentially arranged about said thrust bearing plate; and

wherein each bearing segment in the spring plate includes at least one spring.

10. (Canceled)

11. (Original) The compliant foil thrust bearing of claim 1, wherein the thrust bearing plate and the spring plate are annular plates, each having an outer diameter and an inner diameter.

12. (Original) The compliant foil thrust bearing of claim 11, wherein the lines of weakness extend from the inner diameter.

13. (Original) The compliant foil thrust bearing of claim 11, wherein the lines of weakness extend from the outer diameter.

14. (Previously presented) The compliant foil thrust bearing of claim 11, wherein the lines of weakness extend from both the inner diameter and the outer diameter.

15. (Previously presented) The compliant foil thrust bearing of claim 14, wherein the lines of weakness are circumaxially dispersed about said thrust bearing plate in a sequenced pattern.

16. (Canceled)

17. (Currently amended) A compliant foil thrust bearing, comprising:  
a flat thrust bearing plate;  
a plurality of foils disposed on the surface of said thrust bearing plate;  
a spring plate operatively engaging the thrust bearing plate; and  
a plurality of springs disposed on the surface of said spring plate;  
wherein each of said thrust bearing plate and said spring plate includes a plurality of decoupled bearing segments defined in part by a plurality of generally radially extending lines of weakness circumaxially dispersed about said thrust bearing plate and said spring plate, said decoupled bearing segments being circumferentially arranged about each of said thrust bearing plate and said spring plate.

18. (Original) The compliant foil thrust bearing of claim 17, wherein the lines of weakness provided in the thrust bearing plate and the spring plate are slits.

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Original) The compliant foil thrust bearing of claim 17, wherein the thrust bearing plate and the spring plate are annular plates, each having an outer diameter and an inner diameter; and

wherein the lines of weakness provided in the thrust bearing plate and the spring plate extend from at least one of the inner diameter and the outer diameter of the respective thrust bearing plate and spring plate.

24. (Original) The compliant foil thrust bearing of claim 23, wherein the lines of weakness provided in the thrust bearing plate and the spring plate extend from both the inner diameter and the outer diameter of the respective thrust bearing plate and spring plate.

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25. (Currently amended) A compliant foil thrust bearing, comprising:

a flat thrust bearing plate having a plurality of top foils disposed on a surface thereof,

said thrust bearing plate including a plurality of decoupled bearing segments defined in part by a plurality of generally radially extending lines of weakness circumaxially dispersed about the thrust bearing plate, said decoupled bearing segments being circumferentially arranged about said thrust bearing plate.

26. (Original) The compliant foil thrust bearing of claim 25, wherein the lines of weakness are slits.

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)